Construction Entrance

50 ft (or 30 ft for Access to Individual House Lot)

- Inist protection shall be constructed either before upstope land disturbance begins or
- The wooden frame is to be constructed of 2-by-4-in construction-grade lumber. The end spacers shall be a minimum of 1 ft. beyond both ends of the throat opening The anchors shall be nailed to 2-by-4-in stakes driven on the opposite side of the
- 3 The wire mesh shall be of sufficient strength to support fabric and atone. It shall be a continuous piece with a minimum width of 30 in and 4 ft longer than the throat length of the inlet, 2 ft on each inde

PLAN VIEW

PROFILE

Stone Size--Two-moh stone shelf be used,

Length-The construction entrance shall be

as long as required to stabilize high traffig

areas but not less then 50 ft (except on

single residence lot where a 30-ft minimum

Thickness-The stone tayer shall be at least

Width-The entrance shall be at least 10 ft

6 Culvert-A pips or culvert shall be

constructed under the entrance of needed to

prevent surface water flowing across the

entrance from being directed out onto peved surfaces

10 ft Mountain and Not Law Then Match of Ingrate/Egree

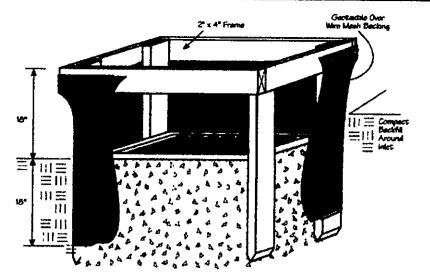
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6 an theck

at least 190 lb

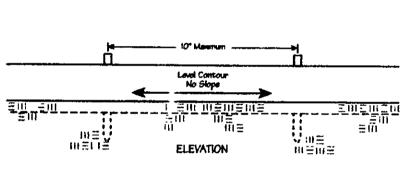
- Geotextile cloth shall have an equivalent opening size (EOS) of 20-40 sieve and be resistant to sunlight it shall be at least the
- The wire mesh and geotextile cloth shall be formed to the concrete gutter and against the face of the curb on both sides of the inlet and securely fastened to the 2-by-4-in
- 6 Two-mon stone shall be placed over the were meeth and geotextile in such a manner as to prevent water from entering the inlet

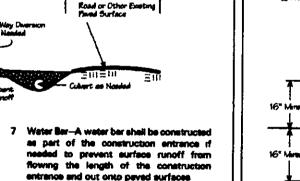
# Inlet Protection in Swales, Ditch Lines or Yard Inlets



- before upelope land disturbance begins of hefore the storm drain becomes operational
- 2 The earth around the inlet shall be excavated completely to a depth at least 18
- 3 The wooden frame shall be constructed of 2-by-4-in construction-grade lumber The 2-by-4-in poets shall be driven 1 ft into the ground at four corners of the inlet and the top portion of 2-by-4-in frame assembled using the overlap joint shown The top of the frame shall be at least 6 in below adjacent roads if ponded water would pose a safety hazard to traffic
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded egainst it it shall be stretched tightly around the frame and fastened securely to
- Geotextile shall have an equivalent operant size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly aroun the frame and fastened securely it shell extend from the top of the frame to 18 in below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cluth are not festened to the same nost
- Backfill shall be placed around the inlet in compacted 8-in levers until the earth is even with notch elevation on ends and top
- A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypessing the inlet will not flow to a settling pond. The top of earth dikes shall be at least 5 in higher than the

# Sift Fence





- Maintenance--Top dressing of additional stone shall be applied as conditions demand Mud spilled, dropped, weshed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediate Removal shall be accomplished by scraping
- wide, but not less than the full width at points where ingress or egress occurs 5 Secking-A protectio shall be pleased over the entire area prior to placing stone it shall have a Grab Tensile Strength of at

3

16° or Sufficient to Dwest Runoff

9 Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction-are shell be

# i6" Minerium FLOW 三加量加重加 111 = 18 = 4 加三加墨 SECTION <u>n≡m</u> ≡m 10 = 0 111 = Sections of Bilt Fance

# Permanent Seeding

## SITE PREPARATION

- A subsoiler, plow or other implement shall be used to reduce soil compaction and ellow measurem inhitration (Measurizing inhitration will help control both runoff rate and water quality } Subsoling should be done when the soil moieture is low enough to allow the soil to crack or fracture Subsorling shall not be done on shp-prone areas where soil preparation should be ismited to what is recessary for establis
- The arte shell be graded as needed to permit the use of conventional equipment
- for seedbed preparation and seeding Resort shall be applied where needed to ertabèsh vegetation

## RECORD PROPARATION

- Lime-Agricultural ground ignestone shall be applied to said soil as recommended by a ood test. In how of a god test, lame shall be speked at the rate of 100 lb /1,000 ag tt
- Fortikzer-Fortikzer shell be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a race of 12 lb/1,000 sq ft or 500 lb/sc of 10-10-10 or 12-12-12 analysis
- The time and fertilizer shall be worked into the sod with a disk herrow, spring-tooth harrow, or other surtable field impl a depth of 3 in. On sloping land the soil shall be worked on the contour

## REFORMS DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug 1 to September 30 These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season - Tillage/seedbed preparation should be done when the soil is Sry enough to crumble and not form ribbons when compressed by hand for writer seeding, see the following section on

## SOMMANT SEEDINGS

- Seedings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate bu probably will not be able to survive the
- The following methods may be used for
- From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, ther mulch and ancher. After November 20 and before Merch 15, broadcast the selected seed mixture increase the seeding rates by 50% for this type of
- From November 20 through Merch 15, when soil conditions permit, prepare the seedbed, irms and fertilize, apply the selected seed mixture, mulch and anchor Increase the seeding rates by 50% for the type of seeding
- Apply seed uniformly with a cyclone seeder, driff, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed

# Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker,

# roller, or light drag. On eloping lend, seeding operations should be on the MILCHING.

### Mulch meterial shall be applied immediately after seeding Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be

- · Strew-If strew is used it shall be Unrotted email-grain straw applied at the rate of 2 tons/so or 90 lb /1,000 eq it (two to three belos). The mulch shall be spread uniformly by hand or mechanically so the and surface is covered For uniform distribution of hand-spread mulch, divide area into approximately 1,000-eq -ft sections and spread two 45-lb bales of straw in
- Hydrosesders--if wood cellulose fiber is used, it shall be used at 2,000 lb /ac or 48 lb /1,000 sq. ft
- Other--Other acceptable mulches include mulch mattings applied eccording to menufacturer's sophed at 6 tons/en

Straw mulch shall be anchored immediately to minutes loss by wind or water

- Mechanical-A disk, crimper, or similar type tool shall be set straight to punch or enchor the mulch meternal into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be
- Mulch Nettings-Nettings shall be used according to the manufacturer's indations. Netting may be necessary to hold muich in place in areas of concentrated runoff and or Critical alones
- Asphalt Emulsion-Asphalt shall be applied as recommended by the manufacturer or at the rate of 160
- Synthetic Binders-Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recomme
- Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a not dry weight of 750 lb /ac. The wood cellulose fiber shall be mored with water and the mixture shall contain a meanment of 50 to /100 gat of wood cellulose 6her

- Permanent seeding shall include irrigation to establish vegetation during dry or hot weether or on adverse site conditions as needed for adequate moisture for seed metion and plant growth
- 2 Excessive impation rates shall be avoided and impation monitored to prevent erosion and damage from runoff

	Per	manent Seeding		
Seed Mix	Seeding Rate			
Seed MIX	fb /ac 1b /1,000ft 1		Hotes	
		General Use		
Creeping Red Feecus Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	%-1 %-% %-%		
Tall Feacue	40	1		
Dwarf Feecue	40	1		
	Steep E	lanks or Cut Slope	<b>16</b>	
Tall Feecus	40	1	-	
Crown Vatoh Tali Feacue	10 20	X X	Do not seed later than August	
Flat Pee Tall Feecue	20 20	% %	Do not seed leter then August	
	Road D	Intches and Swale	1	
Tall Feecue	49	1		
Dwarf Feecus Kentucky Bluegrass	90 5	2%		
		Lewns		
Kentucky Bluegraes Perennel Ryegraes	60 60	1% 1%		
Kentucky Bluegrass Creeping Red Feecue	60 60	1%	For sheded areas	

# EROSION CONTROL DETAILS

# foresight Engineering Group

440 286-1034 fax 320 Center Street, Unit F Chardon, Ohio 44024

# Engineers & Surveyors

SCALE: NONE

Page: 2/2

# Small Lot Building Sites

- Presusting vegetation shall be retained on idle portions of the building lot for as long as construction operations allow Cleaning shall be done so only active working areas
- 2 Temporary seed (annual rye, cets, etc.) and/or mulch shell be applied to areas, such as stockpies, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more
- Stockpies excevated from becoments shall be estuated eway from streets, swales, or other waterways and shall be seeded
- 4 Sit fence shall control sheet flow runoff from the building lot it shall not be constructed in channels or areas of concentrated flow Other sediment controls such as inlet protection and sediment trape shall also be used as needed to control
- 5 Construction vehicle access shall be lengthed to one route, to the greatest extent practical. The access shall be gravel or crushed rook applied to the driveway area
- 6 Mud tracked onto the street or sedeness settled around curb mist protection shall be removed daily or as needed to prevent it from accumulating. It shall be removed by shoveling and screping and shall NOT be washed off peved surfaces or into storm

## Temporary Seeding

Seeding Dates	Вреснев	Lb /1,000 ft <sup>2</sup>	Per Ac
March 1 to August 15	Oats Tall Feecue Annuel Ryegrass	3 1 1	4 bushe 40 lb 40 lb
	Perennial Ryagrass Tall Feacue Annual Ryagrass	1 1 1	40 lb 40 lb 40 lb
August 16 to November 1	Rye Tell Fescus Annual Ryegrass	3 1 1	2 bushel 40 lb 40 lb
	Wheet Tall Feecus Annual Ryegrass	3 1 1	2 bushel 40 lb 40 lb
,	Perennet Ryegrasa Tall Feecue Annual Ryegrass	1 1	40 lb 40 lb 40 lb

- Structural erosion- and sediment-control precisces auch as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction-erts
- 2 Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeding are necessary on typical
- 3 The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedber preparation is not possible
- temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lone and farthers
- 5 Seeding Method-Seed shall be applied uniformly with a cyclone seader, drill, cultipacker seeder, or hydropecter. When feesible, seed that has been broadcast shall be covered by raking or dragging and then lightly temped into pleas using a roller or cultipacker if hydroseeding is used, the seed and fertilizer will be mused on-site and the seeding shall be done immediately and without interruption

## MULCHING THISPORARY SHIPING

- Applications of temporary seeding shall molude mulch which shall be applied during or enmediately after seeding Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization
- 2 Materials
- · Straw-If straw is used, it shall be unrotted email-grain atraw applied at the rate of 2 tons/ac or 90 lb /1,000

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- Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb /sc or 46 tb /1,000 aq ft
- Other--Other acceptable mulches molude mulch mattings applied according to manufacturer's anched at 8 tons/ec
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